

# BW165 TW / CSS

Birchwood 1.65" TunableWhite Direct/Indirect Suspended Linear

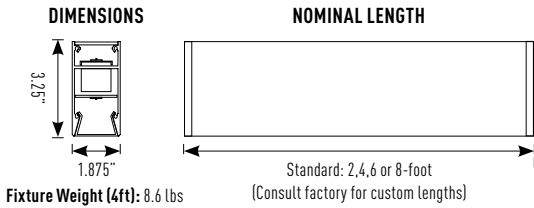
TYPE:

JOB NAME:



Light Output	Nominal Delivered		System Wattage
	Direct	Indirect	Direct & Indirect
HE Lens - 3500K / 90 CRI			
250	250 lm/ft	250 lm/ft	5 W/ft
500	500 lm/ft	500 lm/ft	10 W/ft
750	750 lm/ft	750 lm/ft	15 W/ft

Wattage includes driver and LED Module consumption. Delivered lumen output will vary depending on CCT, CRI and Optic selection.



## FEATURES

- Low-profile Direct/Indirect with integral driver
- Performance optics with uniform pixel free illumination
- Features a hinged drop-down tray for easy install & servicing

## LED LIGHT OUTPUT

- MIN and MAX from 250-750lm/ft
- Custom lumen output anywhere between 250-750lm/ft. Consult factory for details
- TunableWhite Range: 2700K to 6500K at 90CRI
- Rated life of L70 > 60,000 hours based on LED testing per LM-80-08 and projected values using IESNA TM21-11

## ELECTRICAL SYSTEM

- 120/277V Power factor >.9, 50/60Hz
- This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Additional surge protection recommended. Damage from power surge is not covered by warranty.

## DIMMING

- (eldoLED 0-10V 1%)
- (Lutron T-Series Quantum 1%)
- (DMX512 RDM 0.1%)
- (eldoLED Dual Drive DALI DT6 0.1%)
- (eldoLED Dual Drive DALI DT8 0.1%)

## LENS

- Impact resistant co-extruded lens with highly reflective internal cavity
- (HE) High efficiency lens provides optimal performance with even and continuous diffusion

## PERFORMANCE OPTICS

(BW) Batwing, (AS) 15° Asymmetric or (E70) 70° Elliptical.

## CONSTRUCTION

- Extruded 6063-T6 aluminum for a balance of weight, durability & strength
- Precision machined aluminum end caps with no visible hardware.

## OPTIONS

Low profile mounting bracket extends only 1/4" from mounting surface

## CONTINUUM, ILLUMINATED END CAP

Designed to add a touch of light to our precision machined end caps. Three standard designs are offered with an ability to do custom shape. Consult factory for lead times.

## FIXTURE LENGTH

- Nominal Lengths: 2', 4', 6' and 8'
- Continuous Run & Mitered Angles Available

## FINISHES

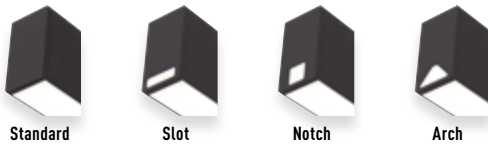
Available finishes includes powder coated Matte White (MW), Flat Black (FB) and Matte Aluminum (MA). Consult factory for custom powder coat finishes.

## LISTING / WARRANTY

- 5-Year Limited Warranty
- UL Listed to US and Canadian standards



## Continuum, Illuminated End Caps Options:



ORDERING CODE: (Example: BW165-DI-250-250-TW2765-HE-HE-8-MW-UNV-ED10V-CSS-36W)

1: Model	2: Light Configuration	3: Light Output - Direct	4: Light Output - Indirect	5: CCT/CRI	6: Lens/Optics - Direct
<b>BW165</b> (Birchwood 1.65" Cable Suspended)	<b>-DI</b> Direct / Indirect <b>-D</b> Direct Only	<b>-250</b> (250 lm/ft) <b>-500</b> (500 lm/ft) <b>-750</b> (750 lm/ft) <b>-000</b> (Custom Value between 250-750lm/ft)	<b>-250</b> (250 lm/ft) <b>-500</b> (500 lm/ft) <b>-750</b> (750 lm/ft) <b>-000</b> (Custom Value between 250-750lm/ft)	<b>-TW2765</b> (Tunable White 2700K-6500K / 90CRI)	<b>-HE</b> (High Efficiency) <b>-BW</b> (Batwing 115°) <b>-AS</b> (Asymmetric 15°) <b>-E70</b> (Elliptical 70°) <b>-FW</b> (Frosted White)
7: Lens/Optics - Indirect	8: Nominal Length	9: Finish	10: Voltage	11: Dimming	
<b>-HE</b> (High Efficiency) <b>-BW</b> <sup>1</sup> (Batwing 115°) <b>-AS</b> (Asymmetric 15°) <b>-E70</b> (Elliptical 70°)	<b>-2</b> (2ft) <b>-4</b> (4ft) <b>-6</b> (6ft) <b>-8</b> (8ft) <b>-CR</b> <sup>1,2</sup> (Continuous Run - Note length in feet) <b>-MTR-R</b> <sup>1</sup> (Mitered Run, Shop Drawing Required)	<b>-MW</b> (Powder Coat, Matte White) <b>-FB</b> (Powder Coat, Flat Black) <b>-MA</b> (Powder Coat, Matte Aluminum) <b>-CUP</b> <sup>3</sup> (Custom, Consult Factory)	<b>-UNV</b> (Universal, 120V-277V) <b>-120</b> (120V) <b>-277</b> (277V)	<b>-ED10V1</b> (eldoLED 0-10V 1%) <b>-LUTT</b> (Lutron T-Series Quantum 1%) <b>-DMXR</b> (DMX512 RDM 0.1%) <b>-DALI6</b> (eldoLED Dual Drive DALI DT6 0.1%) <b>-DALI8</b> (eldoLED Dual Drive DALI DT8 0.1%)	
12: CSS: Canopy Option	13: Options				
<b>-CSS-36W</b> (5" Round White Canopy, 36" Aircraft Cable) <b>-CSS-36B</b> (5" Round Black Canopy, 36" Aircraft Cable) <b>-CSS-CU</b> (Custom, Consult Factory)	blank (Standard End Cap) <b>-SEC</b> <sup>1</sup> (Slot End Cap) <b>-NEC</b> <sup>1</sup> (Notch End Cap) <b>-AEC</b> <sup>1</sup> (Arch End Cap) <b>-CEC</b> <sup>1</sup> (Custom End Cap) <b>-2CT</b> <sup>4</sup> (2 Circuit Switching) <b>-EM</b> <sup>5</sup> (Emergency Battery Pack)				

## NOTES:

- Consult factory for lead times
- Specify length in nominal feet
- Contact factory for custom finish
- Available only with DMXR and DALI control options
- EM available in 4', 6' & 8' direct only. Consult factory for EM options

SPECIFICATION SHEET / LM-0901-22-1

BIRCHWOOD LIGHTING | 3340 E La Palma Ave, Anaheim, CA 92806 | tel 714 550-7118 | fax 714 550-7151 | www.birchwoodlighting.com

For Birchwood Lighting's limited product warranty, go to www.birchwoodlighting.com. For a printed copy of the warranty, you may call 800 961-5321.

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lighting | company

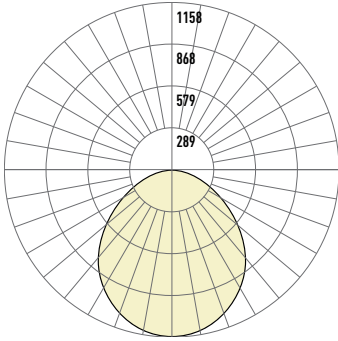
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TYPE: \_\_\_\_\_  
JOB NAME: \_\_\_\_\_

## BW165-D-750-TW2765-HE-4 (4000K)

PHOTOMETRIC CURVE:



**Direct (HE):** 740 lm/ft      **Wattage:** 30.41  
**Total Lumens (4ft):** 2960 lm      **CCT/CRI:** 4000K / 90CRI  
**Efficacy:** 97.3 lm/W

LUMINANCE DATA (cd/sq.m):

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16131	16944	17459
55	13935	15023	16246
65	10603	11909	13707
75	7120	8058	9169
85	4273	4788	4624

CANDELA DISTRIBUTION:

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5
0	1158	1158	1158	1158	1158	1158	1158	1158	1158	1158
5	1151	1147	1151	1151	1154	1154	1156	1156	1154	1154
10	1130	1128	1133	1135	1137	1139	1138	1140	1138	1137
15	1094	1095	1101	1103	1111	1113	1112	1111	1111	1111
20	1048	1051	1060	1067	1072	1076	1073	1074	1072	1072
25	994	998	1007	1018	1028	1029	1026	1023	1023	1021
30	935	937	948	962	973	974	968	964	962	965
35	866	870	880	893	903	905	903	895	893	895
40	780	789	807	815	829	828	829	818	816	817
45	686	697	721	736	748	749	741	733	730	732
50	587	597	623	644	655	655	647	637	633	637
55	481	492	519	547	561	557	545	531	526	532
60	371	384	410	440	456	452	436	422	416	422
65	270	280	303	331	349	342	326	314	308	313
70	181	189	206	225	240	235	225	215	211	215
75	111	116	126	136	143	143	139	134	132	135
80	58	61	66	69	70	73	75	73	73	73
85	22	24	25	25	24	27	30	31	31	31
90	5	5	5	5	5	5	5	5	5	5

ZONAL LUMEN:

Zone	Lumens
0-10	109
10-20	312
20-30	468
30-40	555
40-50	558
50-60	471
60-70	312
70-80	142
80-90	33

CCT Lumen Multipliers:

2700K	3000K	3500K	4000K	5000K
x0.87	x0.93	x0.97	x1.00	x0.94

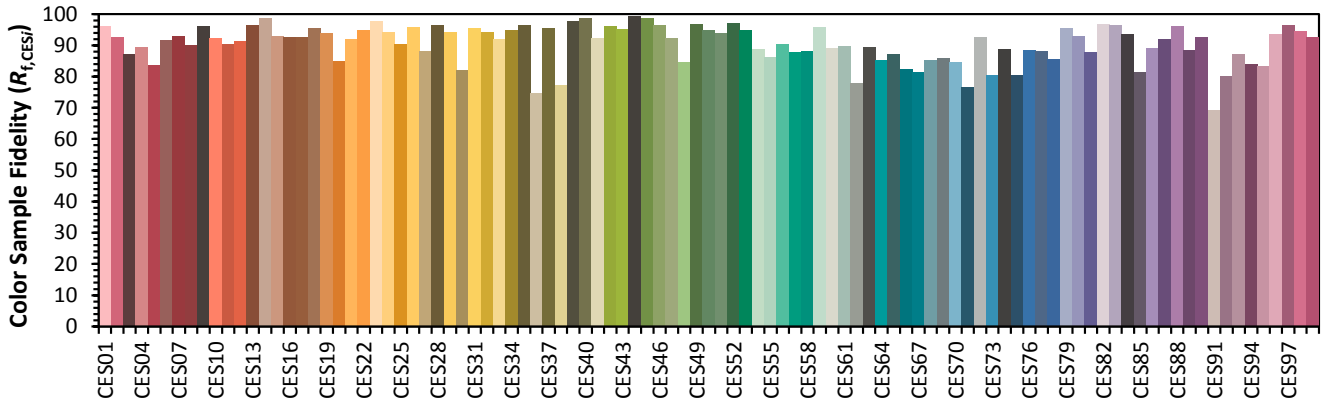
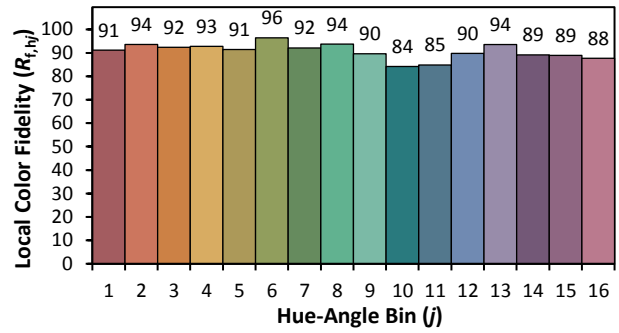
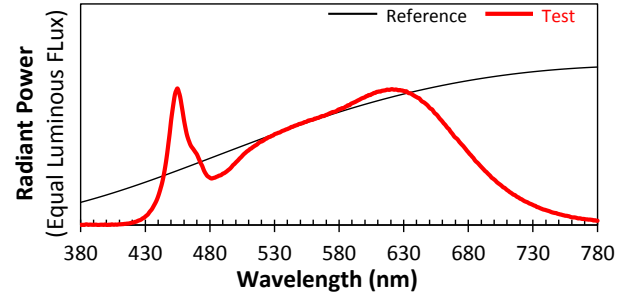
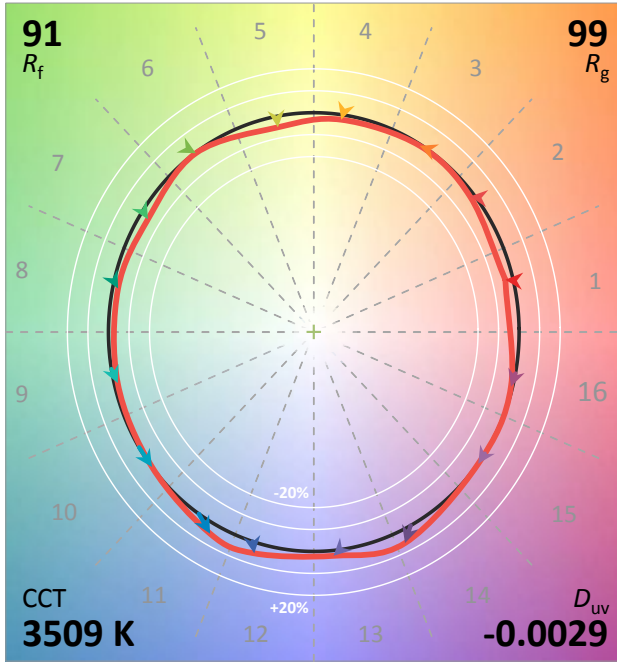
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## ANSI/IES TM-30-18 Color Rendition Report

Bridgelux BXEB TW LED module at 3500K

x 0.4018 | y 0.3825 | u' 0.2369 | v' 0.5073



Note: Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.